

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081319\
 Data File : BN007137.D
 Acq On : 13 Aug 2019 18:19
 Operator : HP/JU
 Sample : K4173-11
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 14 03:13:15 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN081019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 13 12:12:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.43	152	9869	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	38998	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	22421	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	51300	0.40	ng	0.00
26) Chrysene-d12	21.05	240	51301	0.40	ng	-0.01
32) Perylene-d12	23.17	264	63055	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.06	112	5053	0.21	ng	0.00
4) Phenol-d6	6.62	99	6904	0.24	ng	0.00
7) Nitrobenzene-d5	8.56	82	5781	0.18	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	12354	0.17	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	2011	0.17	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	3268	0.10	ng	0.00
24) Fluoranthene-d10	18.87	212	28021	0.15	ng	0.00
28) Terphenyl-d14	19.49	244	23478	0.17	ng	0.00

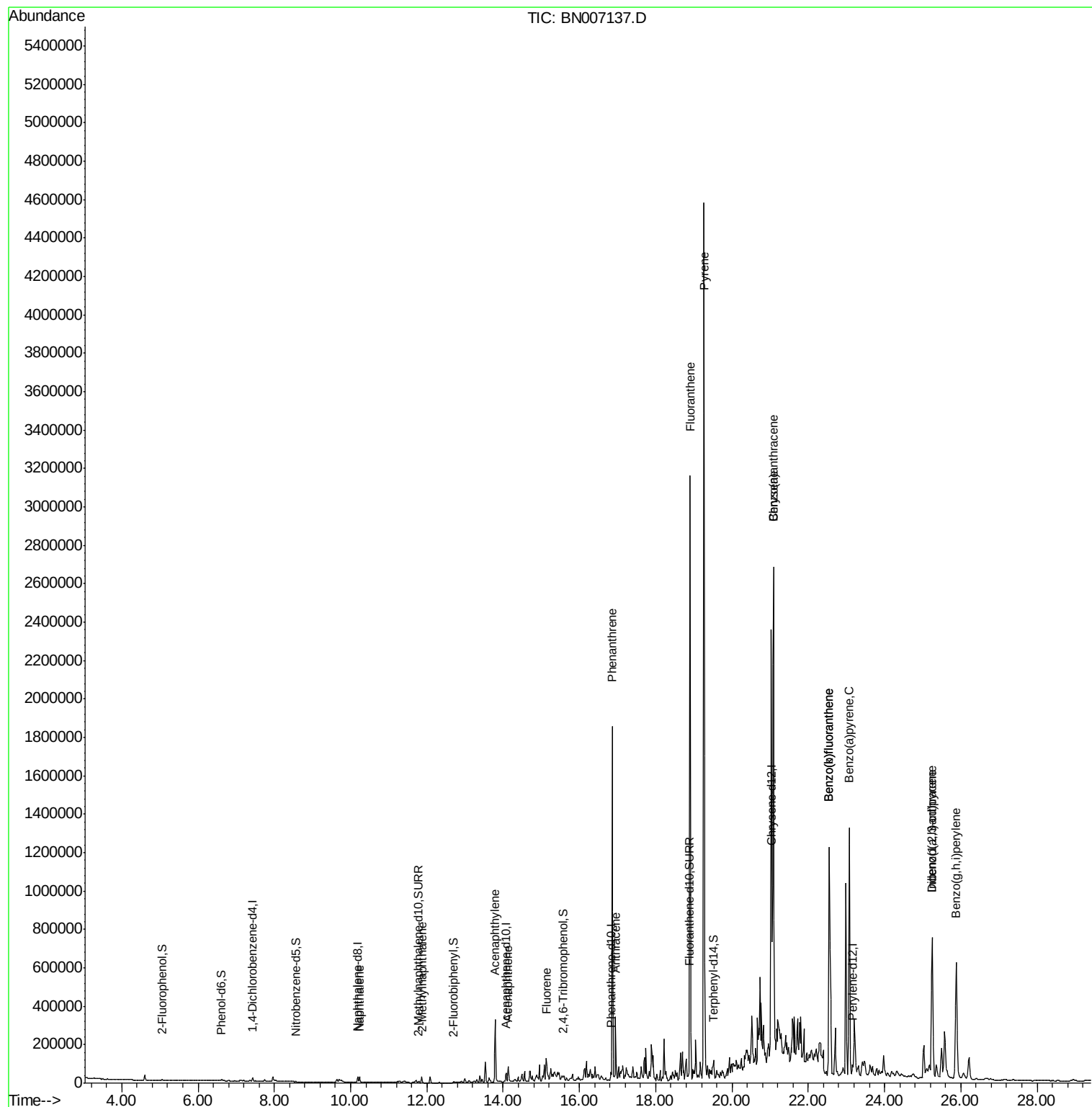
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Naphthalene	10.24	128	38973	0.356	ng	99
11) 2-Methylnaphthalene	11.87	142	22215	0.287	ng	97
15) Acenaphthylene	13.79	152	407860	3.480	ng	99
16) Acenaphthene	14.13	154	46894	0.625	ng	97
17) Fluorene	15.14	166	91793	0.817	ng	84
22) Phenanthrene	16.87	178	1795613	11.679	ng	99
23) Anthracene	16.96	178	373190	2.657	ng	98
25) Fluoranthene	18.90	202	3004409	15.277	ng	98
27) Pyrene	19.26	202	4344901	24.151	ng	96
29) Benzo(a)anthracene	21.09	228	2397952	12.782	ng	95
30) Chrysene	21.09	228	2397952	13.156	ng	97
31) Indeno(1,2,3-cd)pyrene	25.25	276	1110832	5.529	ng	99
33) Benzo(b)fluoranthene	22.55	252	2710329	12.535	ng	99
34) Benzo(k)fluoranthene	22.55	252	2710329	12.692	ng	99
35) Benzo(a)pyrene	23.08	252	1761658	8.987	ng	99
36) Dibenzo(a,h)anthracene	25.26	278	319520	1.634	ng	# 90
37) Benzo(a,h,i)perylene	25.88	276	1216014	6.044	ng	99

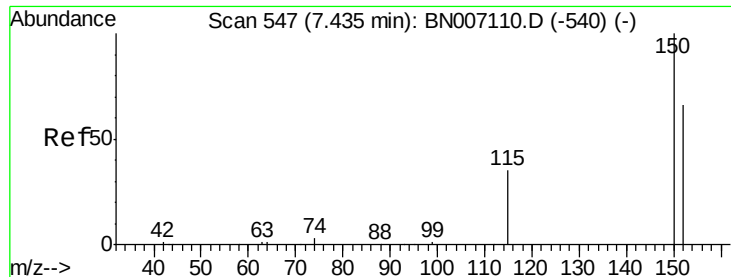
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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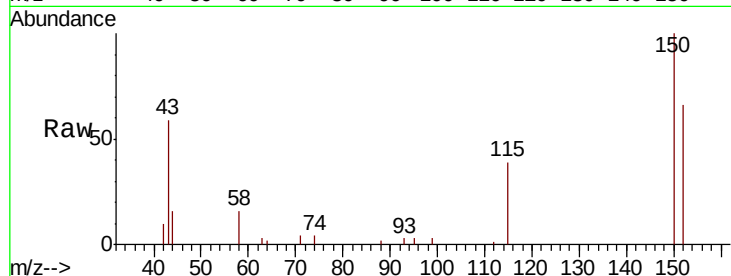


#1

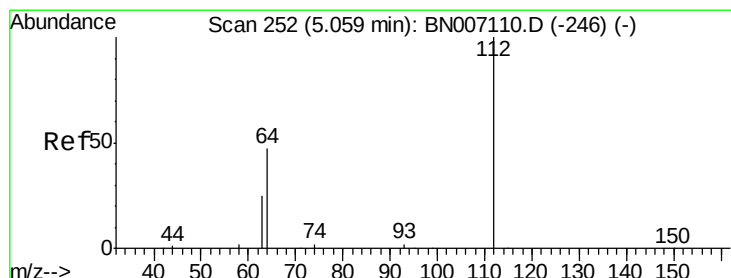
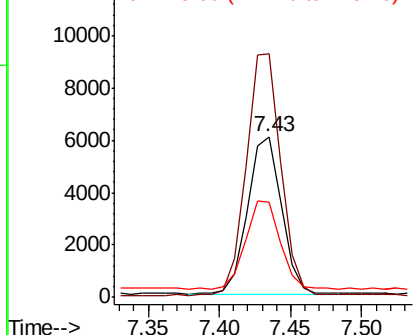
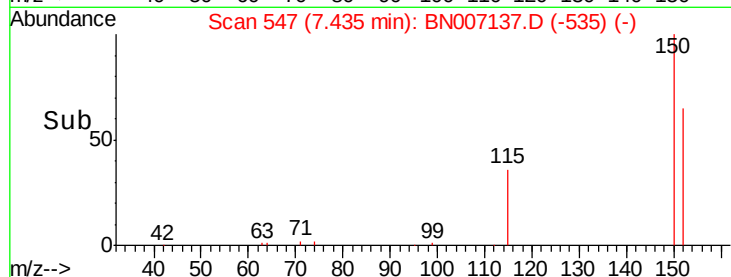
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007137.D
Acq: 13 Aug 2019 18:19

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 9869
Ion Ratio Lower Upper
152 100
150 151.4 121.7 182.5
115 59.2 46.2 69.4



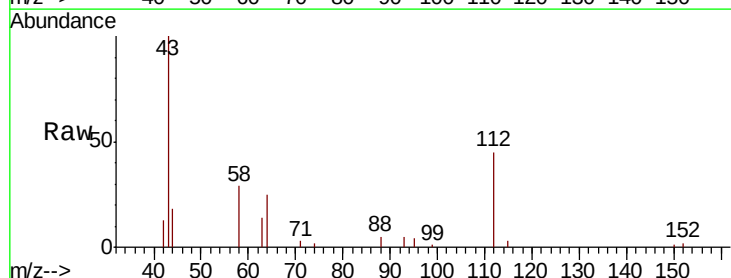
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



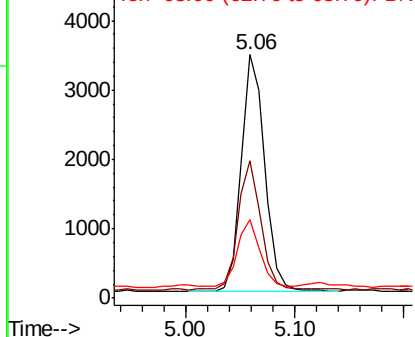
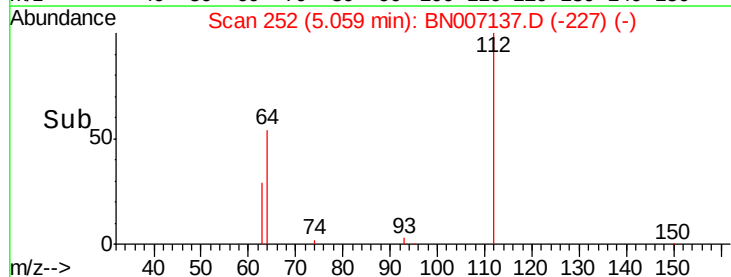
#3

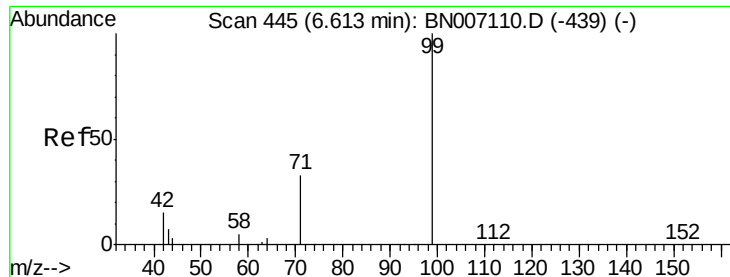
2-Fluorophenol
Concen: 0.213 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007137.D
Acq: 13 Aug 2019 18:19

Tgt Ion:112 Resp: 5053
Ion Ratio Lower Upper
112 100
64 52.8 42.6 63.8
63 28.6 22.2 33.2



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BNC
Ion 63.00 (62.70 to 63.70): BNC





#4

Phenol-d6

Concen: 0.235 ng

RT: 6.62 min Scan# 446

Delta R.T. 0.01 min

Lab File: BN007137.D

Acq: 13 Aug 2019 18:19

Instrument :

BNA_N

ClientSampleId :

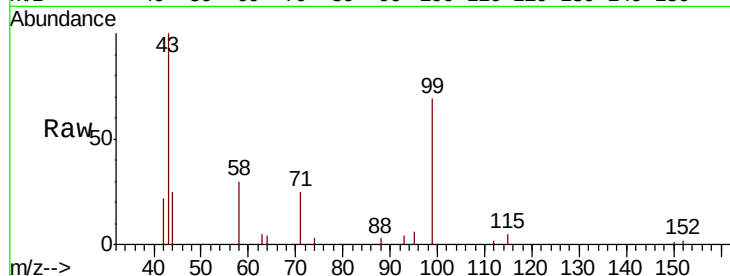
Tot Ion: 99 Resp: 6904

Ion Ratio Lower Upper

99 100

42 20.0 15.8 23.6

71 34.8 27.0 40.4

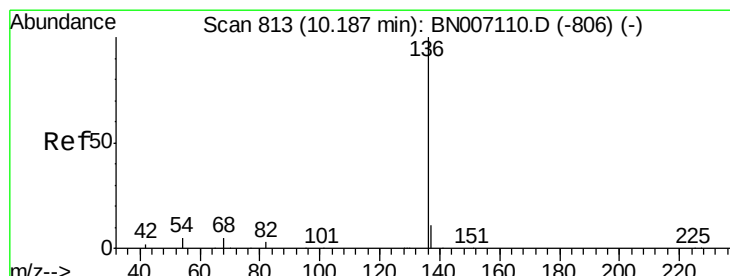
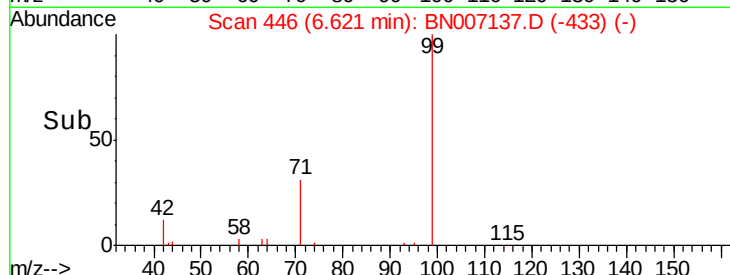
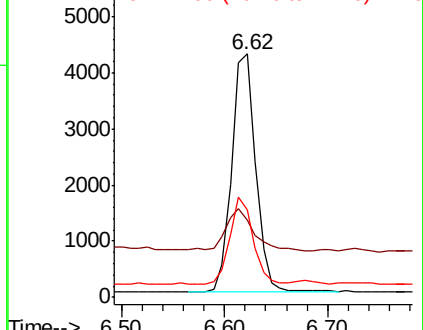


Abundance

Ion 99.00 (98.70 to 99.70): BN007110.D (-439) (-)

Ion 42.00 (41.70 to 42.70): BN007110.D (-439) (-)

Ion 71.00 (70.70 to 71.70): BN007110.D (-439) (-)



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007137.D

Acq: 13 Aug 2019 18:19

Tgt Ion: 136 Resp: 38998

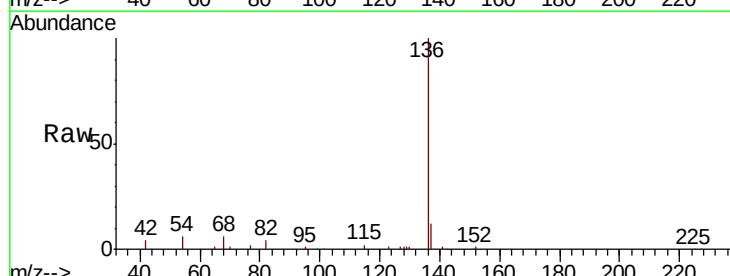
Ion Ratio Lower Upper

136 100

137 11.6 9.4 14.0

54 6.1 6.6 9.8#

68 5.7 6.0 9.0#



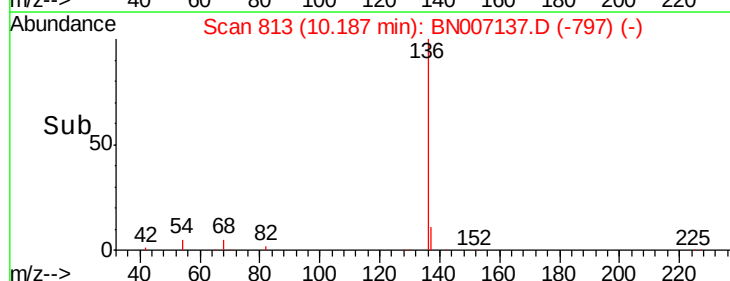
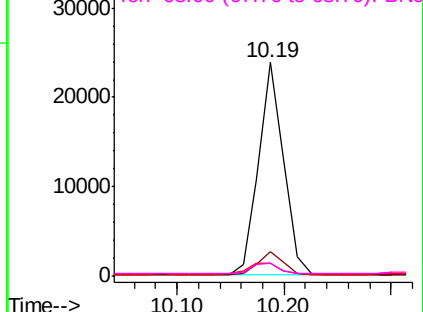
Abundance

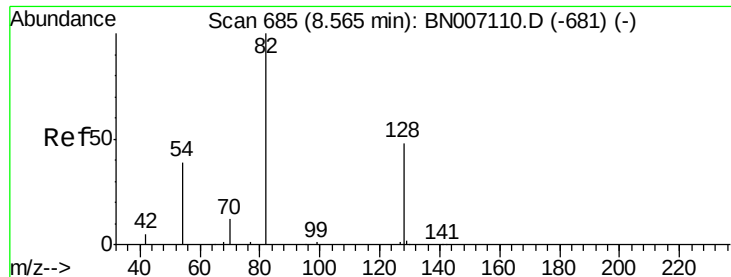
Ion 136.00 (135.70 to 136.70): BN007110.D (-806) (-)

Ion 137.00 (136.70 to 137.70): BN007110.D (-806) (-)

Ion 54.00 (53.70 to 54.70): BN007110.D (-806) (-)

Ion 68.00 (67.70 to 68.70): BN007110.D (-806) (-)





#7

Nitrobenzene-d5

Concen: 0.184 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007137.D

Acq: 13 Aug 2019 18:19

Instrument :

BNA_N

ClientSampleId :

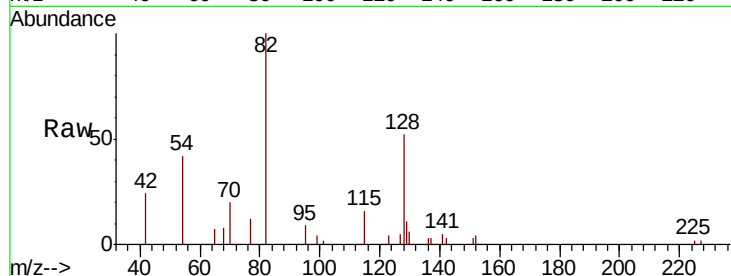
Tot Ion: 82 Resp: 5781

Ion Ratio Lower Upper

82 100

128 52.2 34.6 51.8#

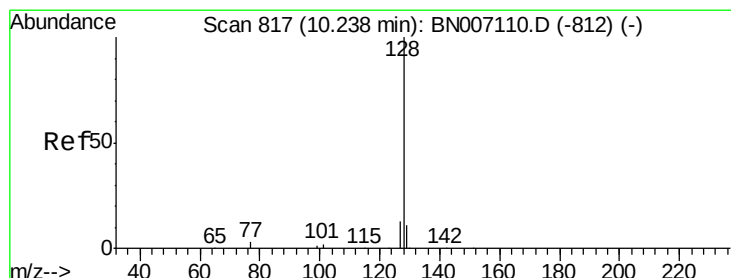
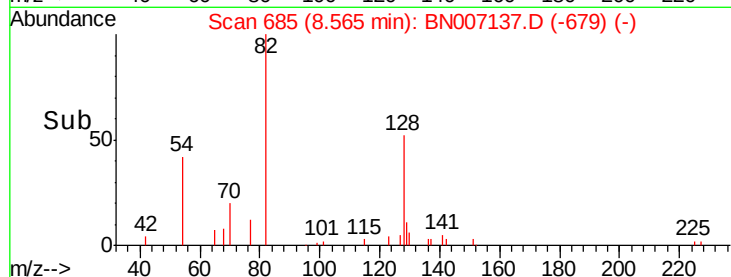
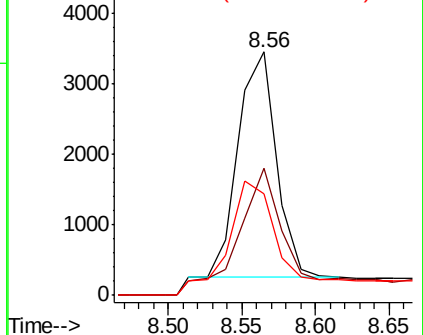
54 41.8 36.2 54.4



Abundance Ion 82.00 (81.70 to 82.70): BN007110.D (-681) (-)

Ion 128.00 (127.70 to 128.70): BN007110.D (-681) (-)

Ion 54.00 (53.70 to 54.70): BN007110.D (-681) (-)



#8

Naphthalene

Concen: 0.356 ng

RT: 10.24 min Scan# 817

Delta R.T. -0.00 min

Lab File: BN007137.D

Acq: 13 Aug 2019 18:19

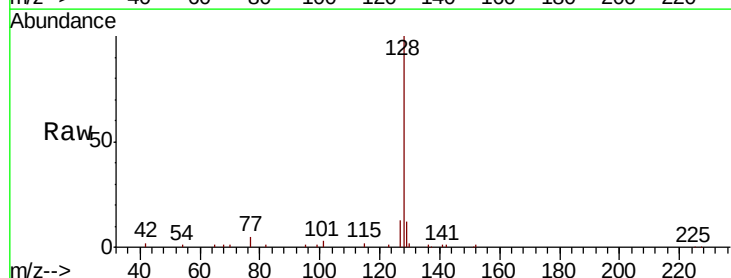
Tgt Ion: 128 Resp: 38973

Ion Ratio Lower Upper

128 100

129 12.1 9.4 14.2

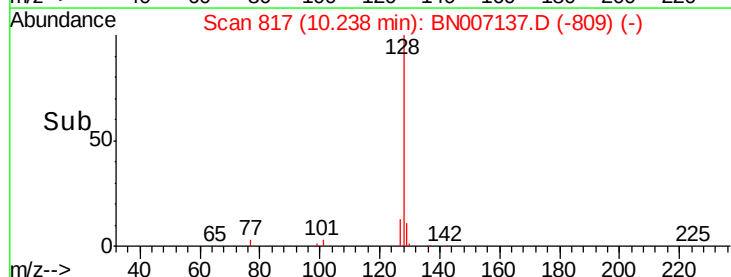
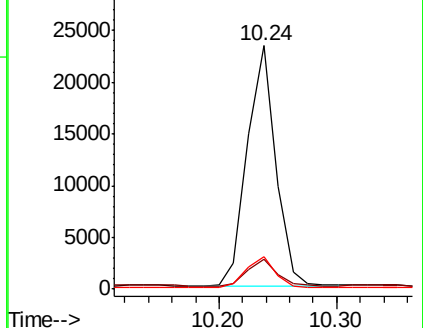
127 13.4 11.0 16.6

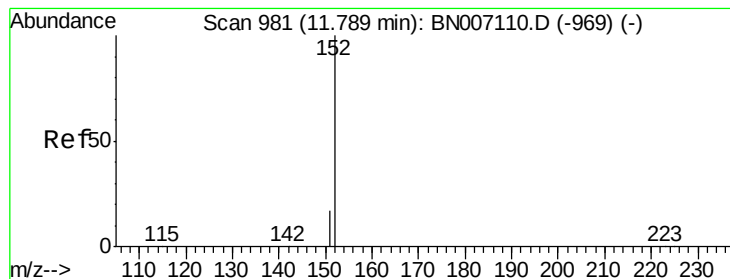


Abundance Ion 128.00 (127.70 to 128.70): BN007110.D (-812) (-)

Ion 129.00 (128.70 to 129.70): BN007110.D (-812) (-)

Ion 127.00 (126.70 to 127.70): BN007110.D (-812) (-)





#10

2-Methylnaphthalene-d10

Concen: 0.170 ng

RT: 11.79 min Scan# 981

Delta R.T. -0.00 min

Lab File: BN007137.D

Acq: 13 Aug 2019 18:19

Instrument :

BNA_N

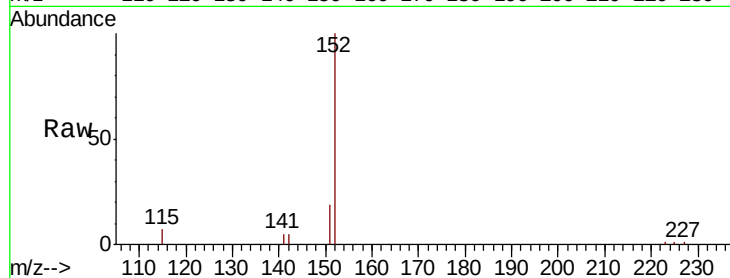
ClientSampleId :

Tot Ion:152 Resp: 12354

Ion Ratio Lower Upper

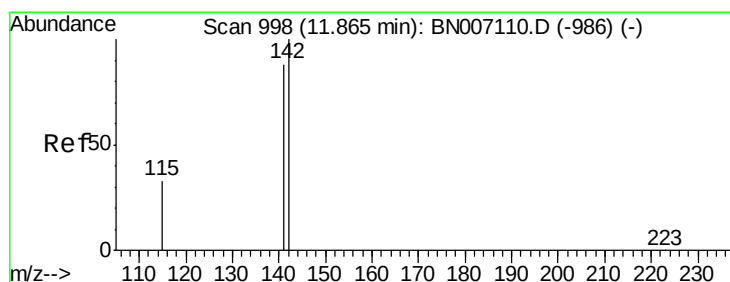
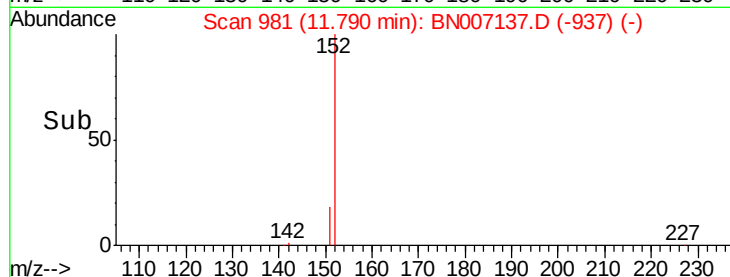
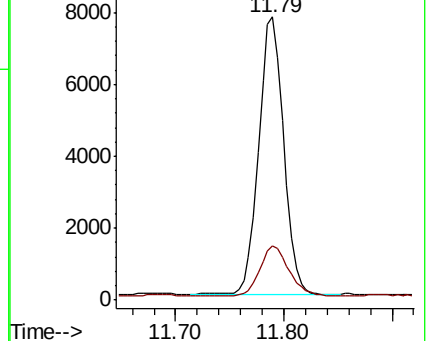
152 100

151 20.7 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#11

2-Methylnaphthalene

Concen: 0.287 ng

RT: 11.87 min Scan# 998

Delta R.T. -0.00 min

Lab File: BN007137.D

Acq: 13 Aug 2019 18:19

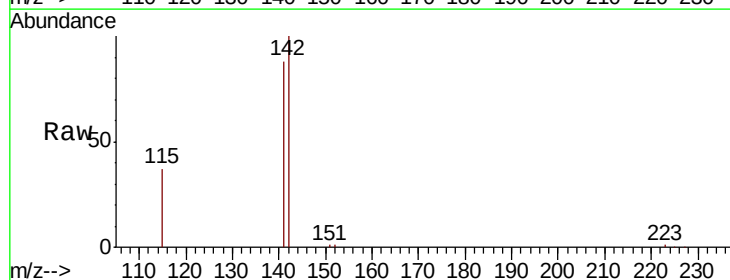
Tgt Ion:142 Resp: 22215

Ion Ratio Lower Upper

142 100

141 88.1 69.0 103.6

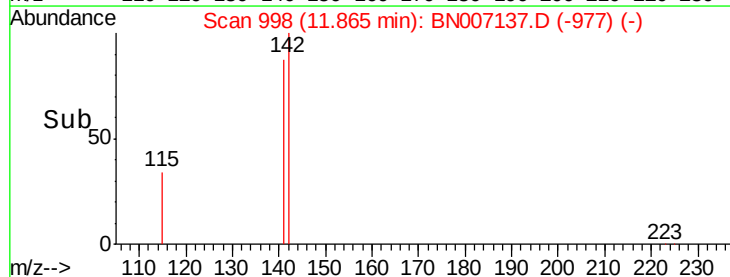
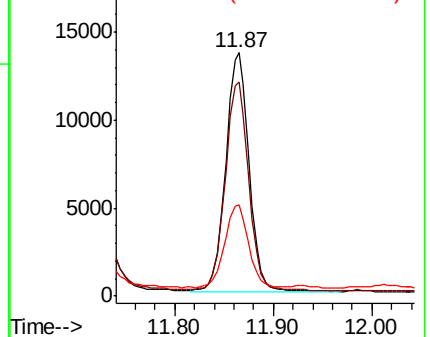
115 37.3 27.1 40.7

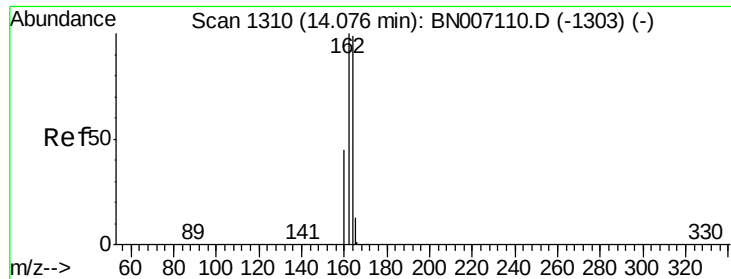


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007137.D

Acq: 13 Aug 2019 18:19

Instrument :

BNA_N

ClientSampleId :

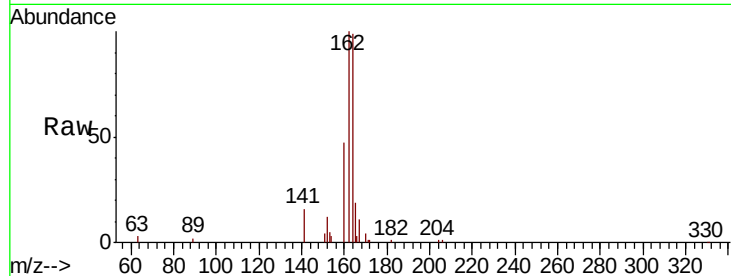
Tot Ion:164 Resp: 22421

Ion Ratio Lower Upper

164 100

162 101.0 82.2 123.4

160 47.5 38.3 57.5

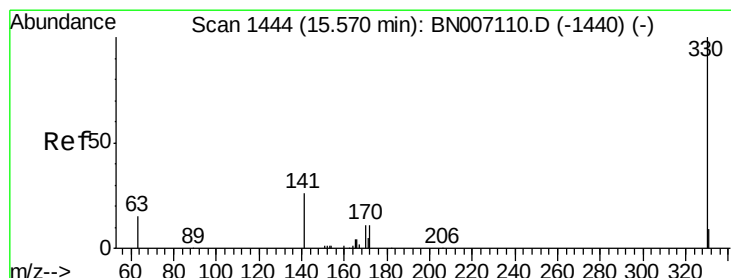
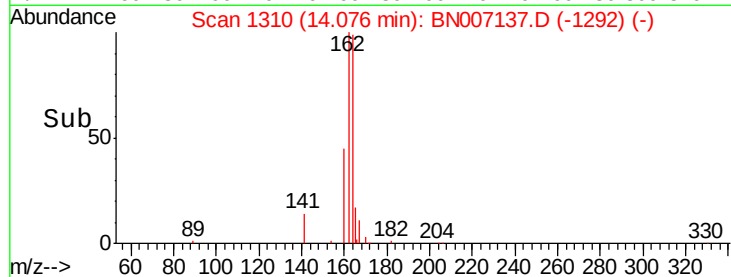
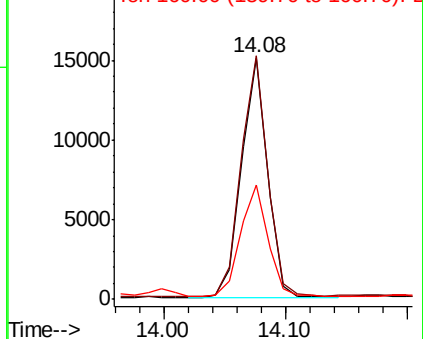


Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#13

2,4,6-Tribromophenol

Concen: 0.167 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007137.D

Acq: 13 Aug 2019 18:19

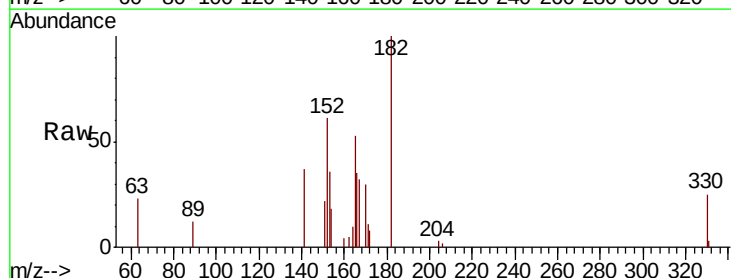
Tgt Ion:330 Resp: 2011

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 0.0 33.6 50.4#

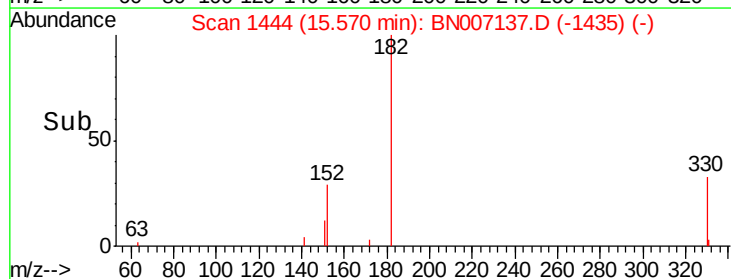
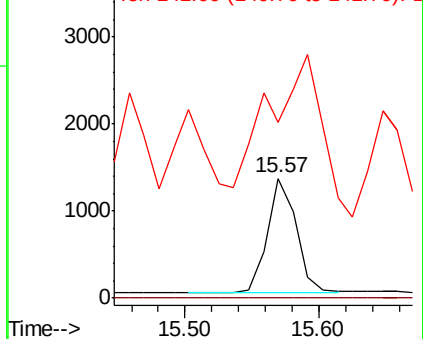


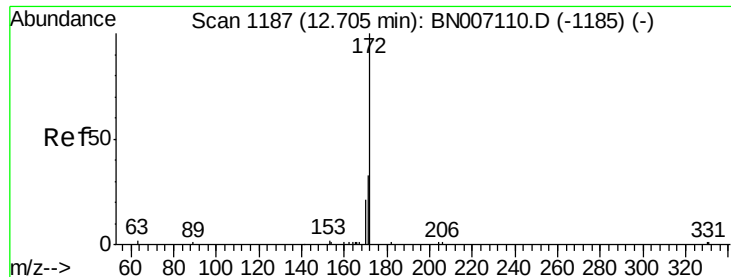
Abundance

Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

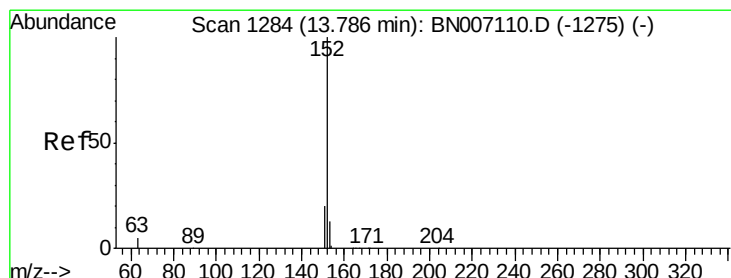
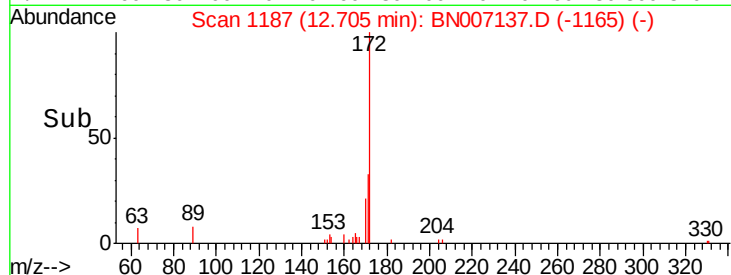
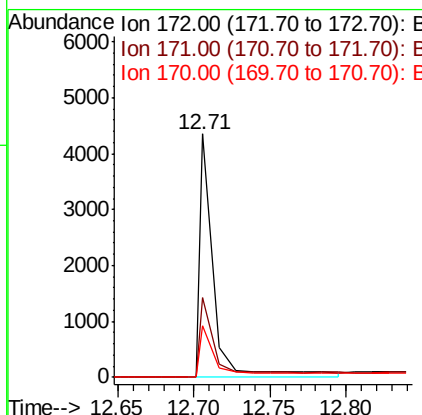
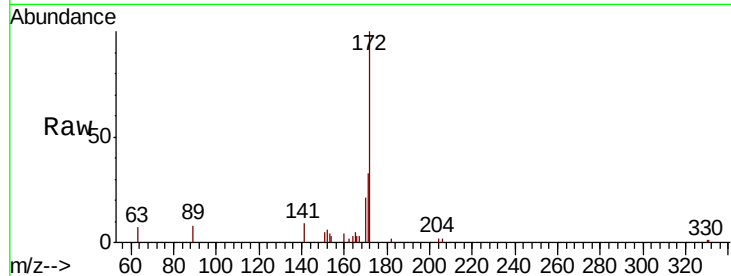




#14
2-Fluorobiphenyl
Concen: 0.100 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007137.D
Acq: 13 Aug 2019 18:19

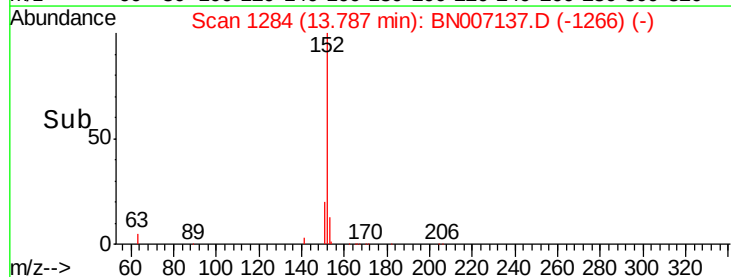
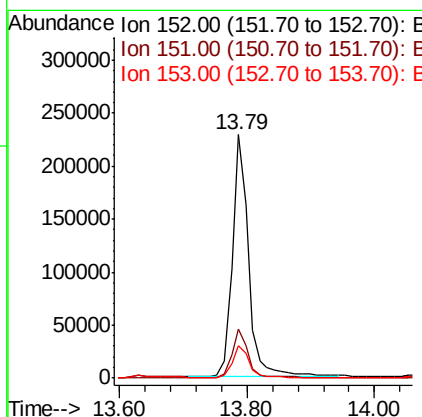
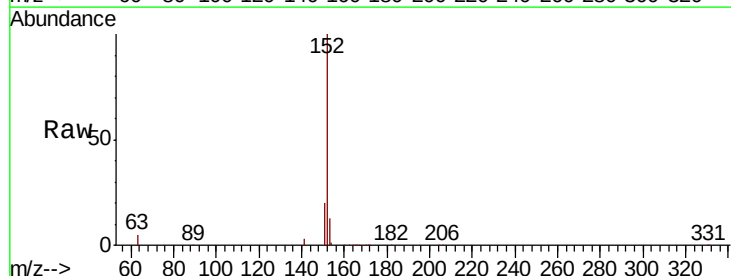
Instrument :
BNA_N
ClientSampleId :

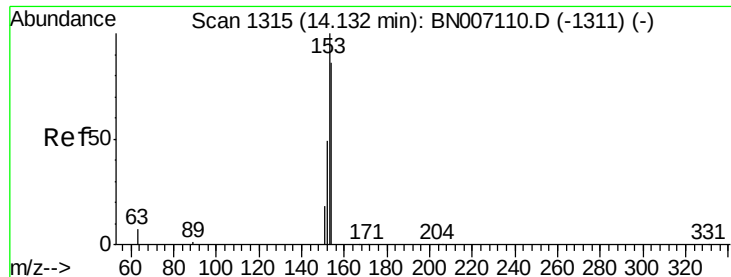
Tot Ion:172 Resp: 3268
Ion Ratio Lower Upper
172 100
171 32.9 26.3 39.5
170 21.0 17.0 25.4



#15
Acenaphthylene
Concen: 3.480 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007137.D
Acq: 13 Aug 2019 18:19

Tgt Ion:152 Resp: 407860
Ion Ratio Lower Upper
152 100
151 19.6 15.8 23.6
153 13.5 10.4 15.6





#16

Acenaphthene

Concen: 0.625 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007137.D

Acq: 13 Aug 2019 18:19

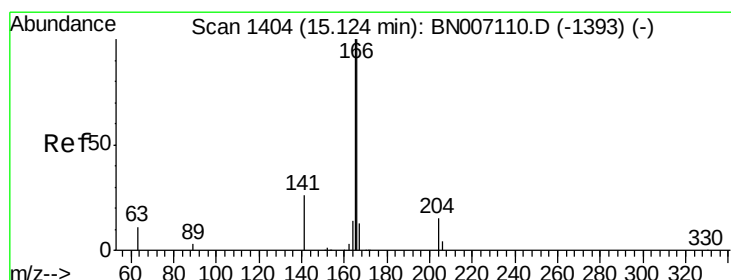
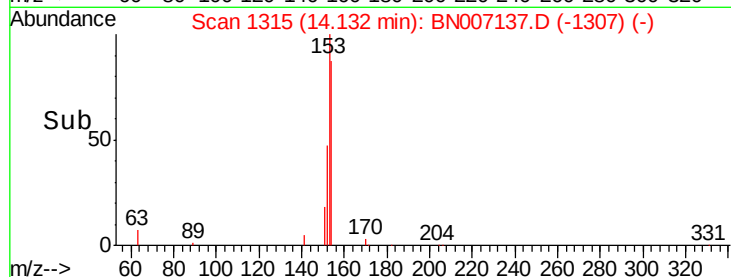
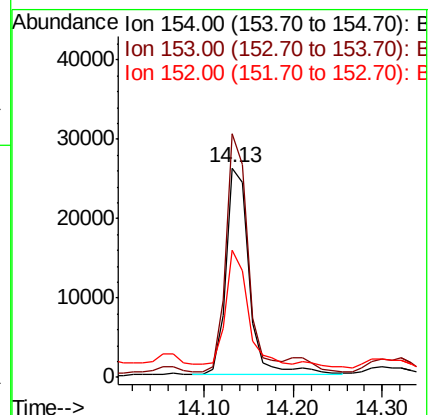
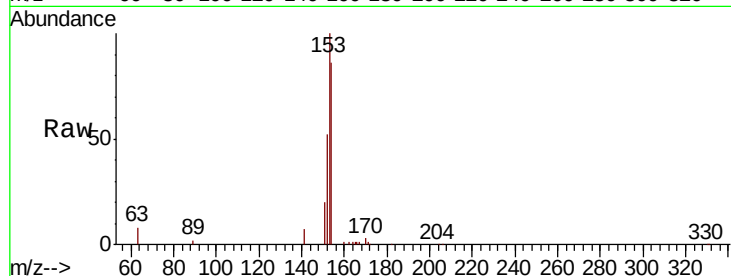
Instrument :

BNA_N

ClientSampleId :

Tot Ion:154 Resp: 46894

Ion	Ratio	Lower	Upper
154	100		
153	110.7	89.5	134.3
152	51.5	44.8	67.2



#17

Fluorene

Concen: 0.817 ng

RT: 15.14 min Scan# 1405

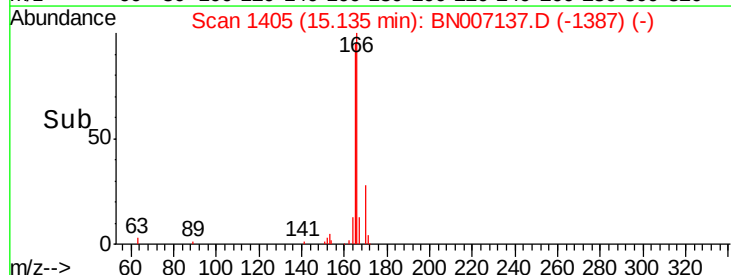
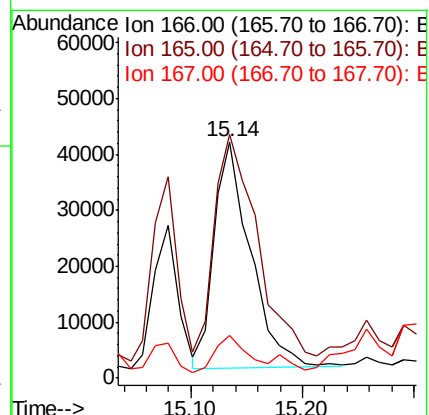
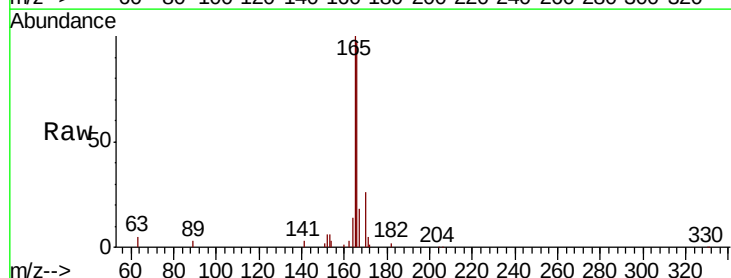
Delta R.T. -0.00 min

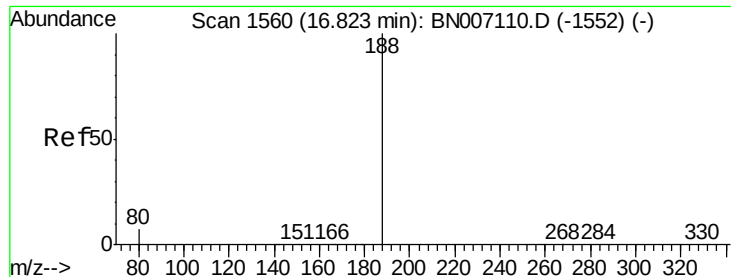
Lab File: BN007137.D

Acq: 13 Aug 2019 18:19

Tgt Ion:166 Resp: 91793

Ion	Ratio	Lower	Upper
166	100		
165	114.9	77.9	116.9
167	15.1	10.9	16.3

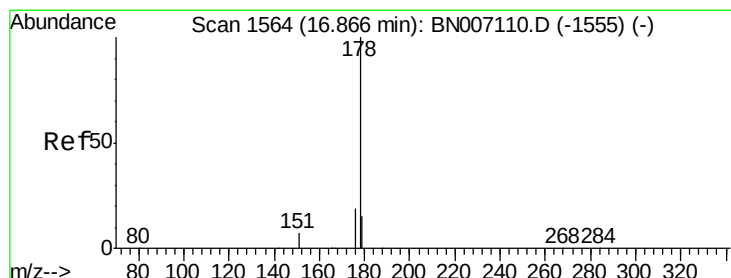
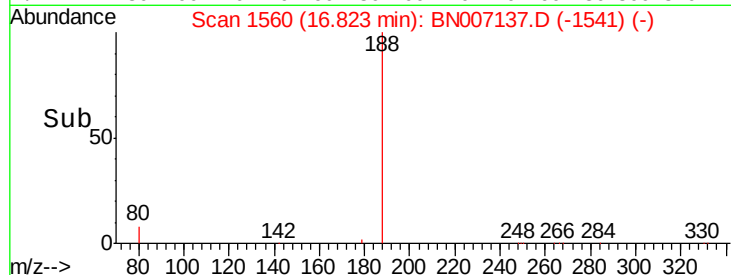
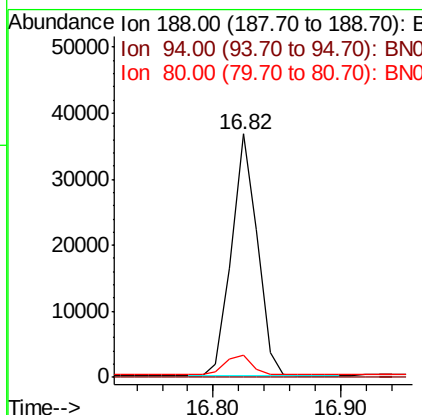
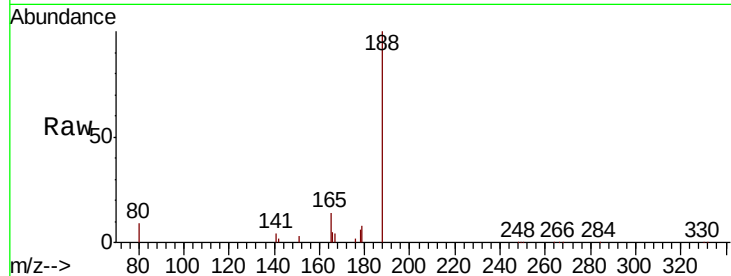




#18
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.82 min Scan# 1560
 Delta R.T. -0.00 min
 Lab File: BN007137.D
 Acq: 13 Aug 2019 18:19

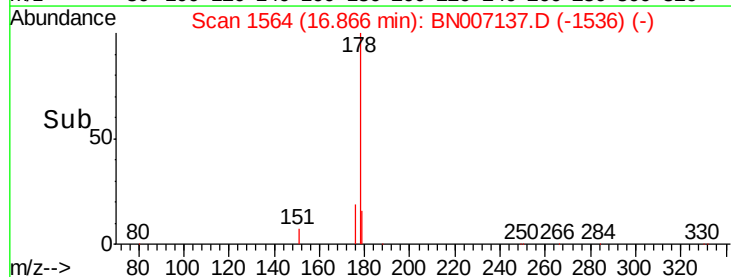
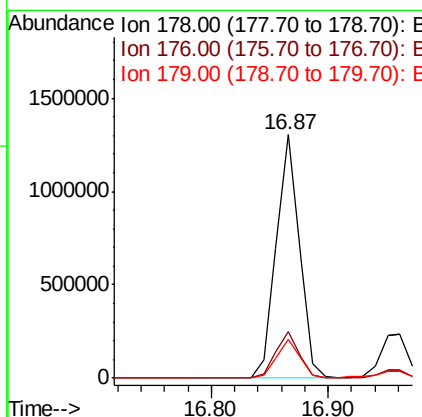
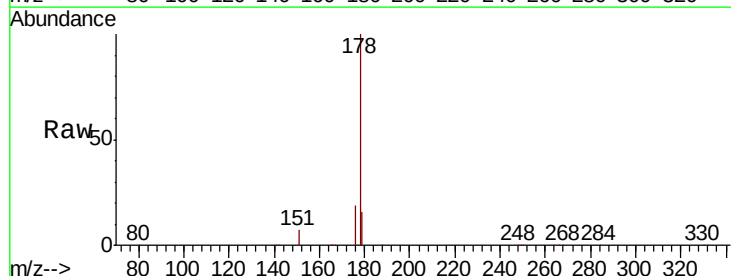
Instrument :
 BNA_N
 ClientSampleId :

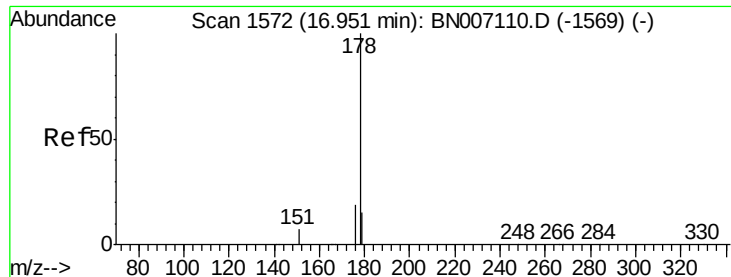
Tot Ion:188 Resp: 51300
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 9.0 7.8 11.6



#22
 Phenanthrene
 Concen: 11.679 ng
 RT: 16.87 min Scan# 1564
 Delta R.T. -0.00 min
 Lab File: BN007137.D
 Acq: 13 Aug 2019 18:19

Tgt Ion:178 Resp: 1795613
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.2 22.8
 179 16.1 12.3 18.5





#23

Anthracene

Concen: 2.657 ng

RT: 16.96 min Scan# 1573

Delta R.T. -0.00 min

Lab File: BN007137.D

Acq: 13 Aug 2019 18:19

Instrument :

BNA_N

ClientSampleId :

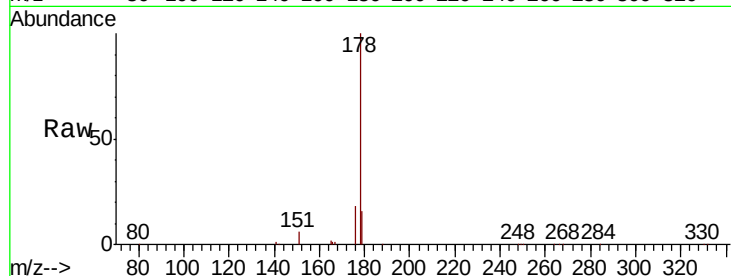
Tot Ion:178 Resp: 373190

Ion Ratio Lower Upper

178 100

176 18.3 14.6 21.8

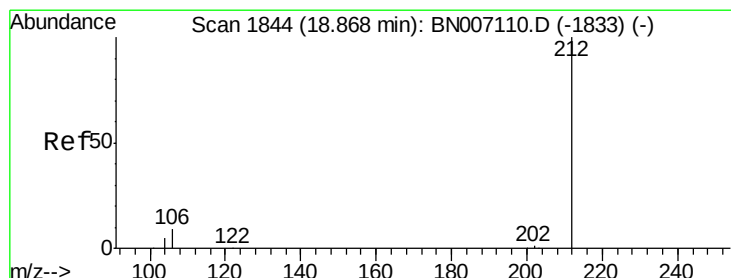
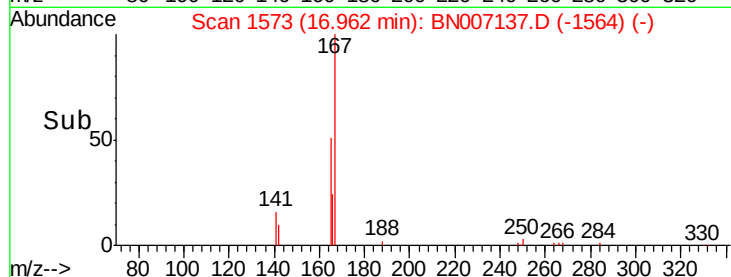
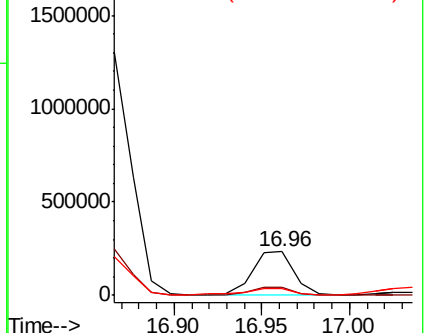
179 17.2 12.5 18.7



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#24

Fluoranthene-d10

Concen: 0.154 ng

RT: 18.87 min Scan# 1845

Delta R.T. -0.00 min

Lab File: BN007137.D

Acq: 13 Aug 2019 18:19

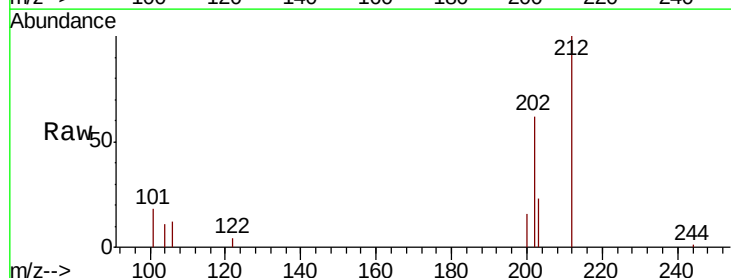
Tgt Ion:212 Resp: 28021

Ion Ratio Lower Upper

212 100

106 11.2 8.2 12.2

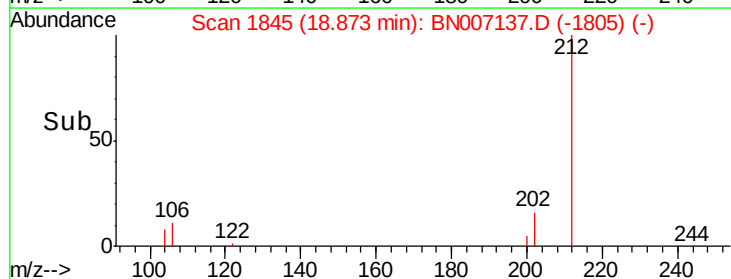
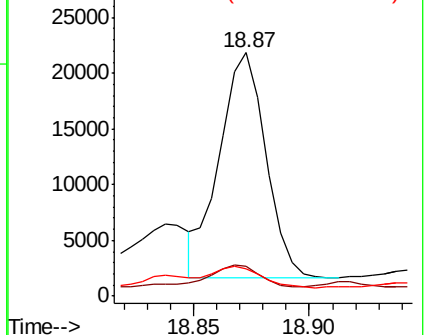
104 10.4 4.5 6.7#

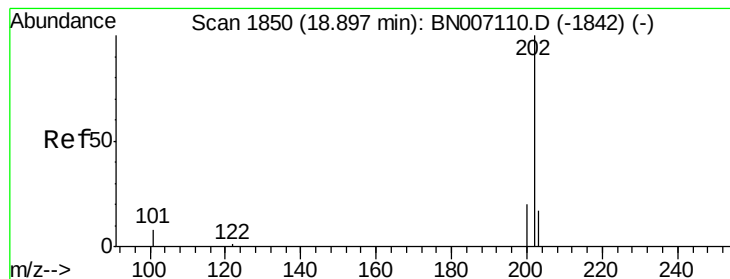


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#25

Fluoranthene

Concen: 15.277 ng

RT: 18.90 min Scan# 1851

Delta R.T. -0.00 min

Lab File: BN007137.D

Acq: 13 Aug 2019 18:19

Instrument :

BNA_N

ClientSampleId :

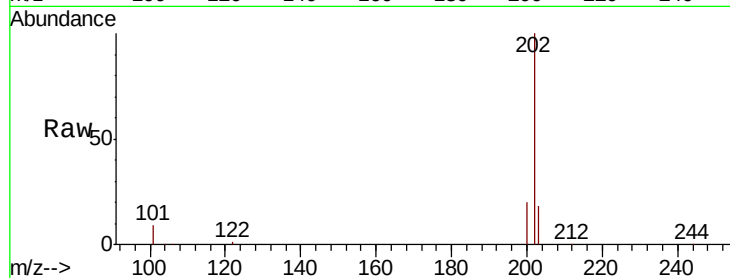
Tot Ion:202 Resp: 3004409

Ion Ratio Lower Upper

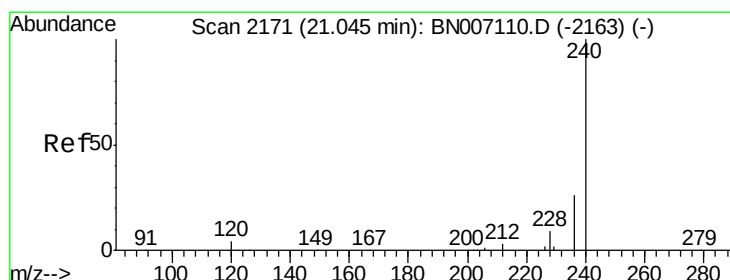
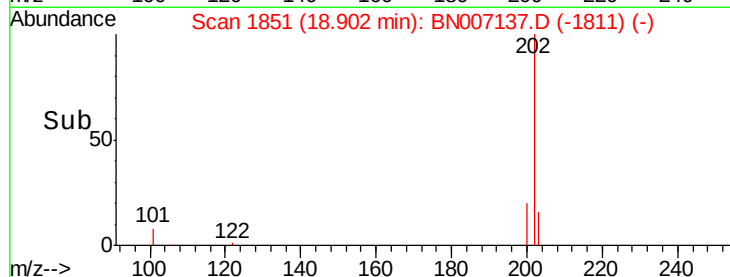
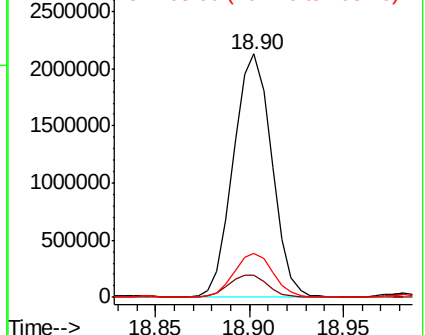
202 100

101 9.2 7.0 10.4

203 18.1 13.8 20.8



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#26

Chrysene-d12

Concen: 0.400 ng

RT: 21.05 min Scan# 2171

Delta R.T. -0.01 min

Lab File: BN007137.D

Acq: 13 Aug 2019 18:19

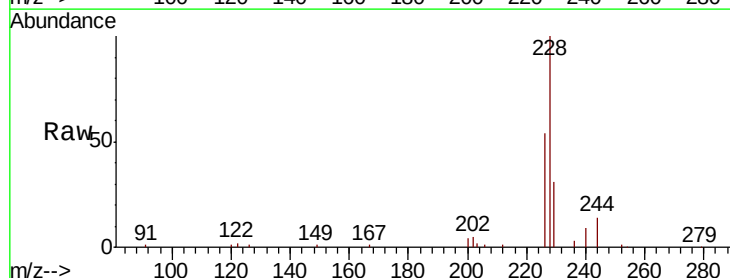
Tgt Ion:240 Resp: 51301

Ion Ratio Lower Upper

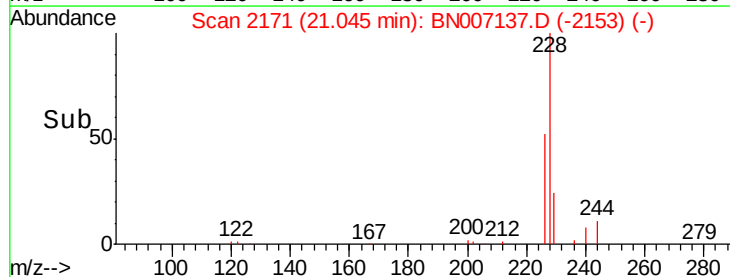
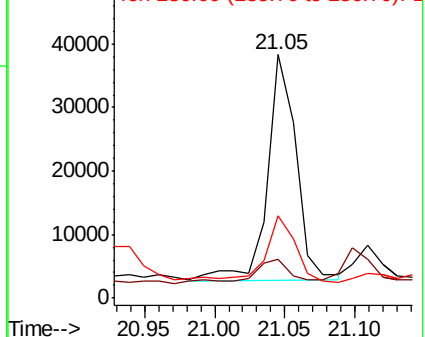
240 100

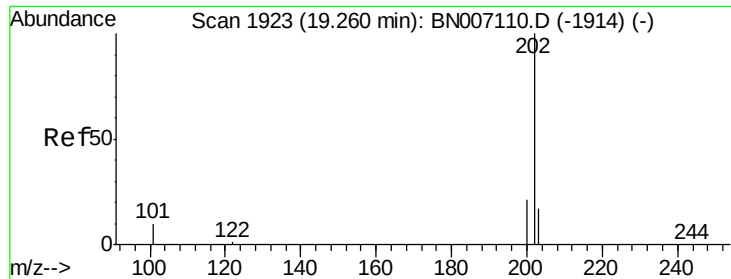
120 15.7 4.0 6.0#

236 34.0 21.3 31.9#



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

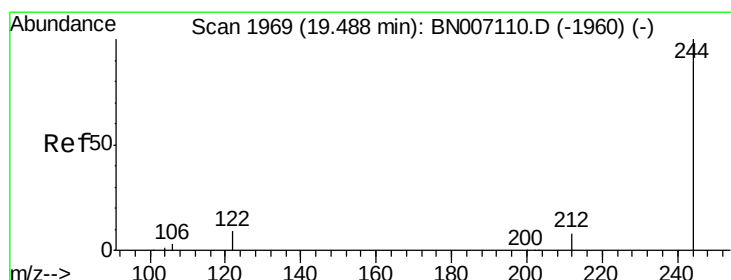
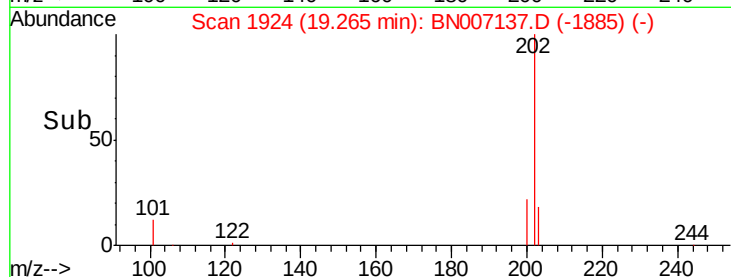
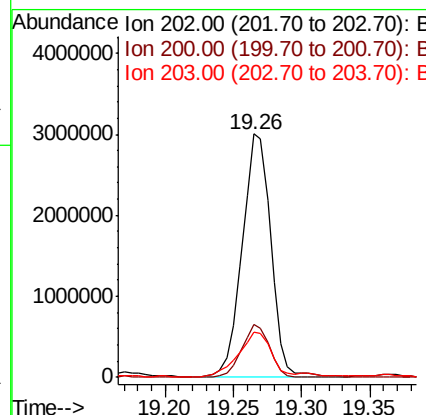
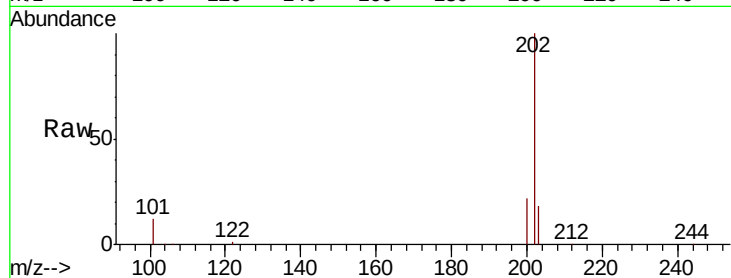




#27
Pvrene
Concen: 24.151 ng
RT: 19.26 min Scan# 1924
Delta R.T. -0.01 min
Lab File: BN007137.D
Acq: 13 Aug 2019 18:19

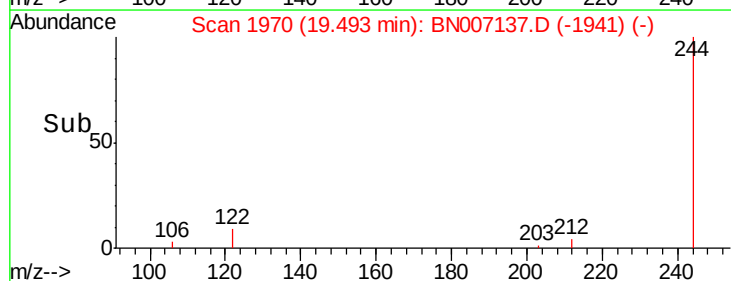
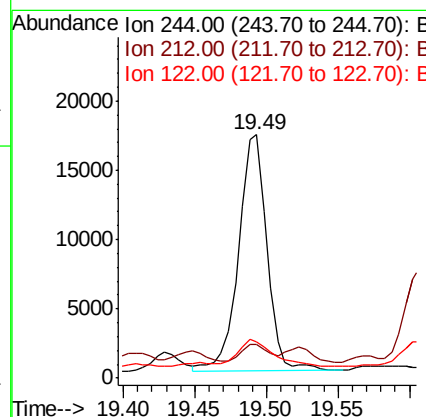
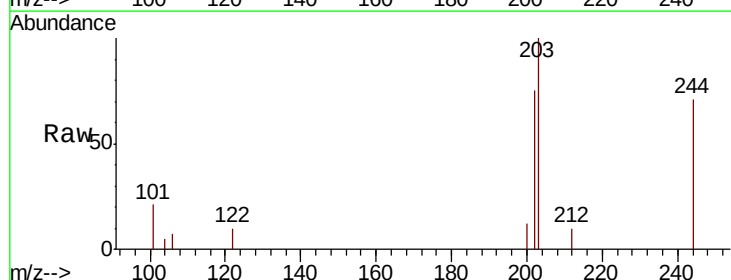
Instrument :
BNA_N
ClientSampleId :

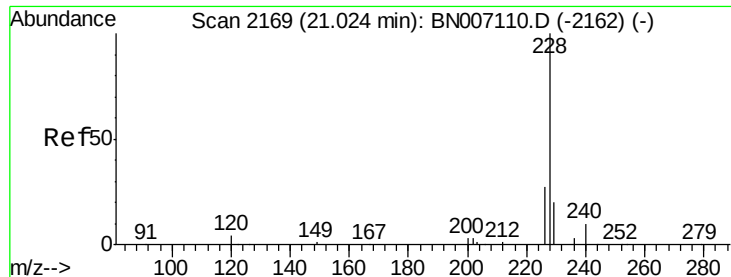
Tot Ion:202 Resp: 4344901
Ion Ratio Lower Upper
202 100
200 21.1 16.6 24.8
203 20.8 14.0 21.0



#28
Terphenyl-d14
Concen: 0.168 ng
RT: 19.49 min Scan# 1970
Delta R.T. -0.01 min
Lab File: BN007137.D
Acq: 13 Aug 2019 18:19

Tgt Ion:244 Resp: 23478
Ion Ratio Lower Upper
244 100
212 14.0 6.2 9.2#
122 14.7 7.4 11.2#





#29

Benzo(a)anthracene

Concen: 12.782 ng

RT: 21.09 min Scan# 2175

Delta R.T. 0.05 min

Lab File: BN007137.D

Acq: 13 Aug 2019 18:19

Instrument :

BNA_N

ClientSampleId :

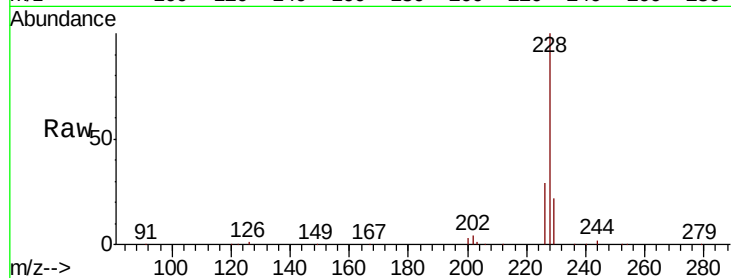
Tot Ion:228 Resp: 2397952

Ion Ratio Lower Upper

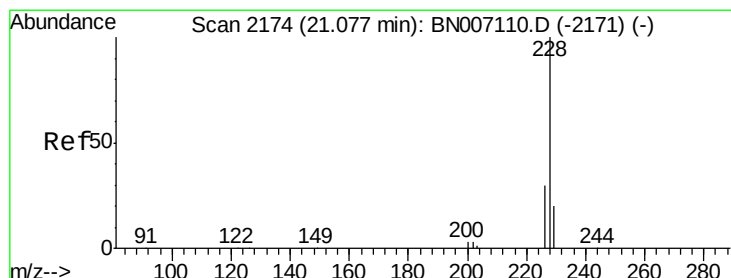
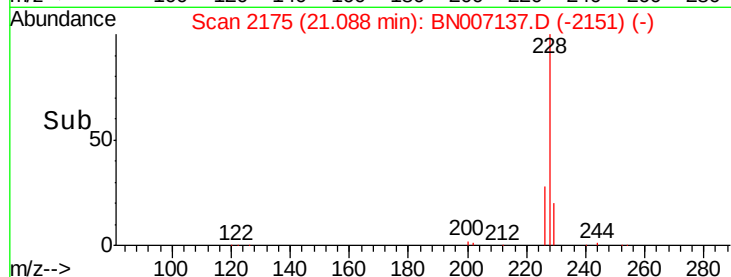
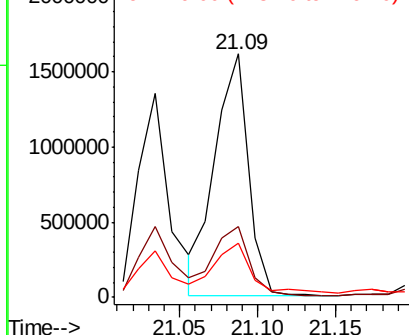
228 100

226 29.3 21.8 32.6

229 22.4 15.6 23.4



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#30

Chrysene

Concen: 13.156 ng

RT: 21.09 min Scan# 2175

Delta R.T. -0.00 min

Lab File: BN007137.D

Acq: 13 Aug 2019 18:19

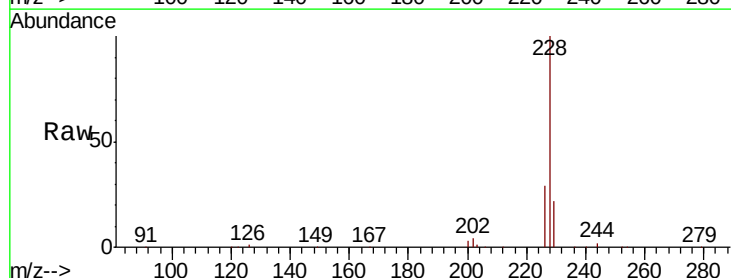
Tgt Ion:228 Resp: 2397952

Ion Ratio Lower Upper

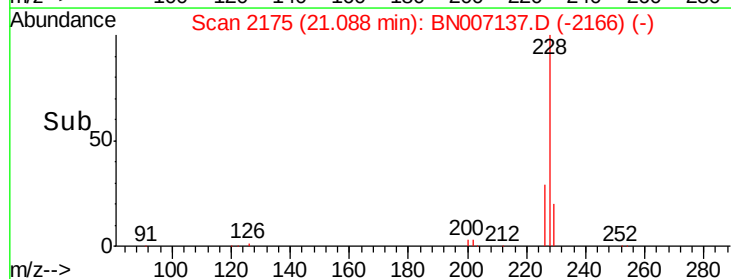
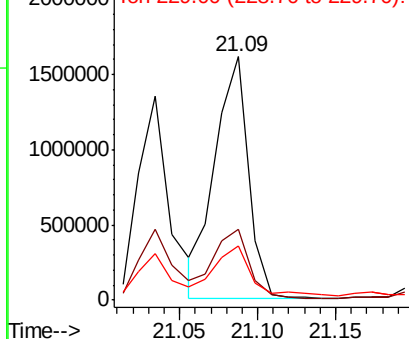
228 100

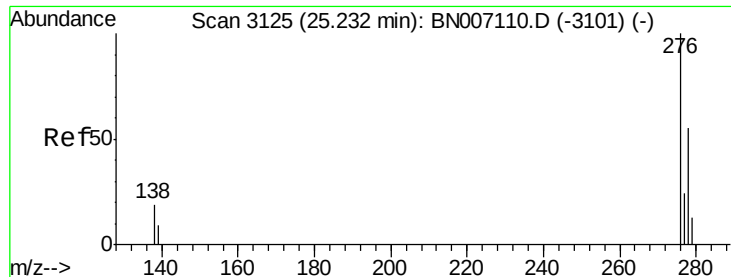
226 29.3 23.8 35.6

229 22.4 15.7 23.5



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#31

Indeno(1,2,3-cd)pyrene

Concen: 5.529 ng

RT: 25.25 min Scan# 3131

Delta R.T. -0.00 min

Lab File: BN007137.D

Acq: 13 Aug 2019 18:19

Instrument :

BNA_N

ClientSampleId :

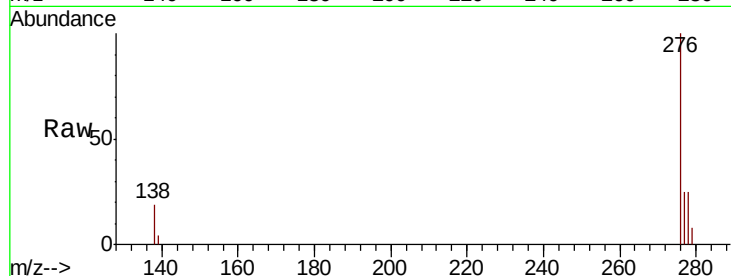
Tot Ion:276 Resp: 1110832

Ion Ratio Lower Upper

276 100

138 18.6 16.0 24.0

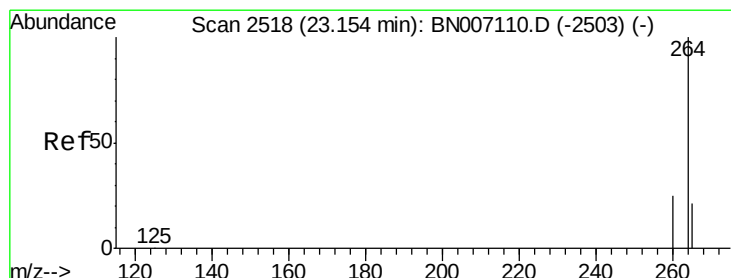
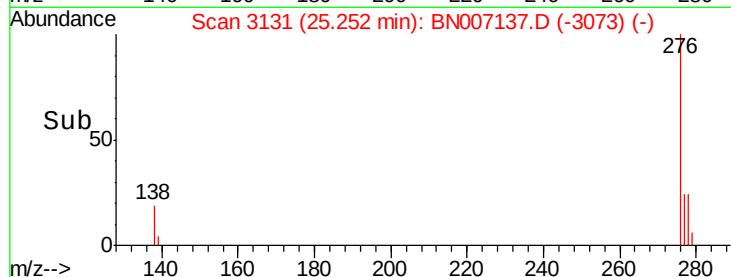
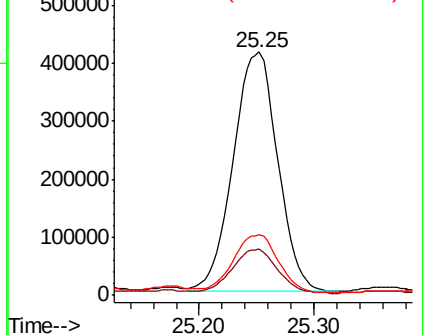
277 24.9 19.9 29.9



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#32

Perylene-d12

Concen: 0.400 ng

RT: 23.17 min Scan# 2522

Delta R.T. -0.00 min

Lab File: BN007137.D

Acq: 13 Aug 2019 18:19

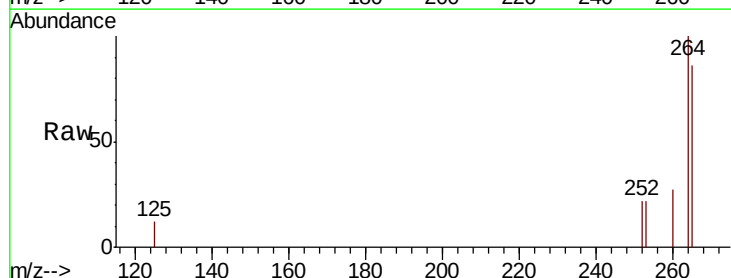
Tgt Ion:264 Resp: 63055

Ion Ratio Lower Upper

264 100

260 26.6 19.8 29.8

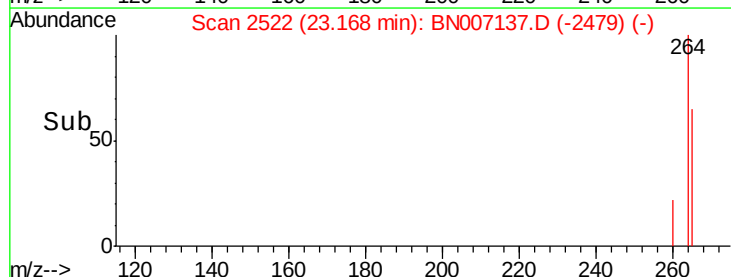
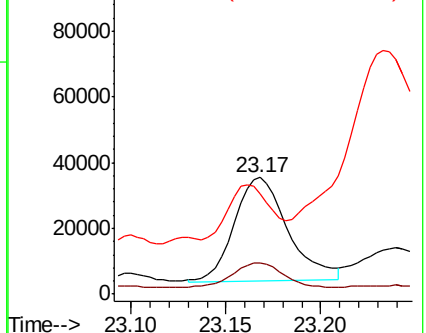
265 86.3 26.2 39.4#

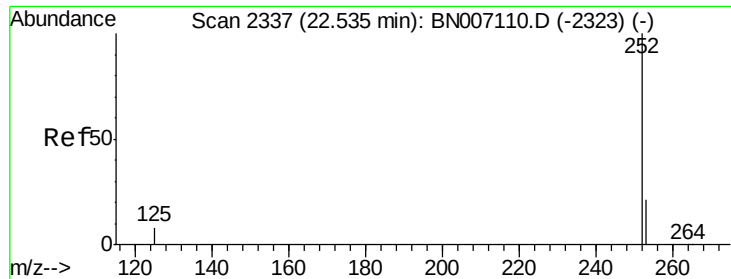


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

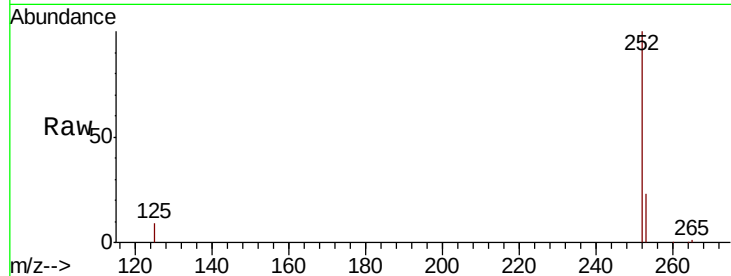




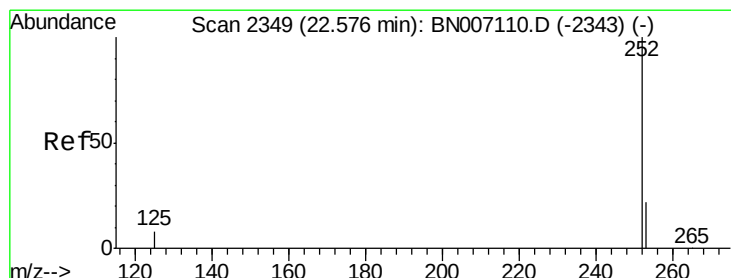
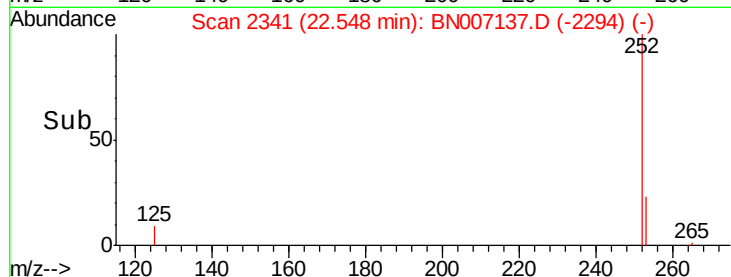
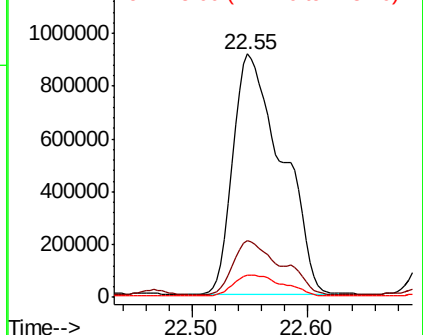
#33
Benzo(b)fluoranthene
Concen: 12.535 ng
RT: 22.55 min Scan# 2341
Delta R.T. -0.00 min
Lab File: BN007137.D
Acq: 13 Aug 2019 18:19

Instrument :
BNA_N
ClientSampleId :

Tot Ion:252 Resp: 2710329
Ion Ratio Lower Upper
252 100
253 23.1 18.2 27.2
125 9.0 7.4 11.0

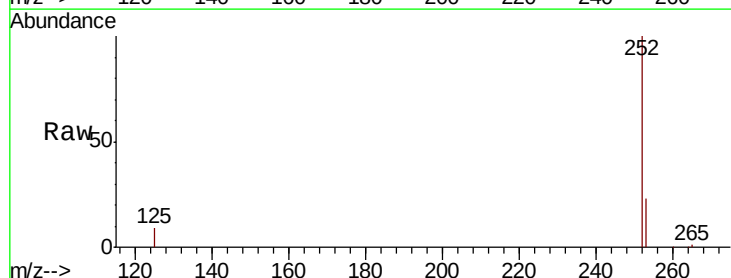


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

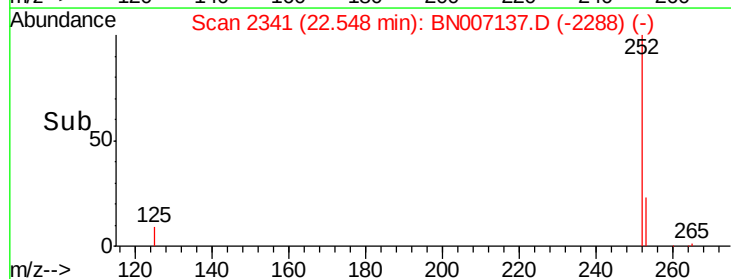
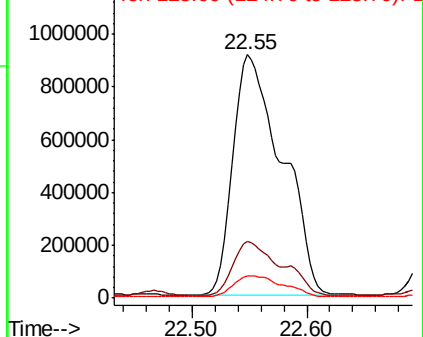


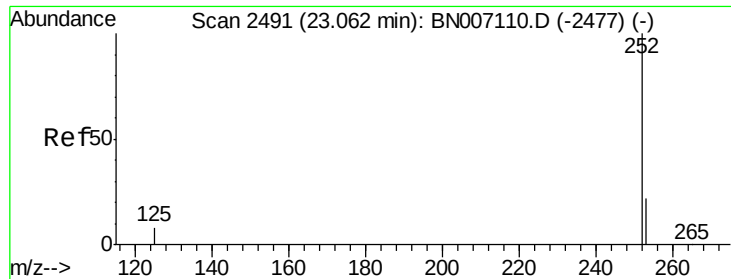
#34
Benzo(k)fluoranthene
Concen: 12.692 ng
RT: 22.55 min Scan# 2341
Delta R.T. -0.04 min
Lab File: BN007137.D
Acq: 13 Aug 2019 18:19

Tgt Ion:252 Resp: 2710329
Ion Ratio Lower Upper
252 100
253 23.1 18.1 27.1
125 9.0 7.4 11.0



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

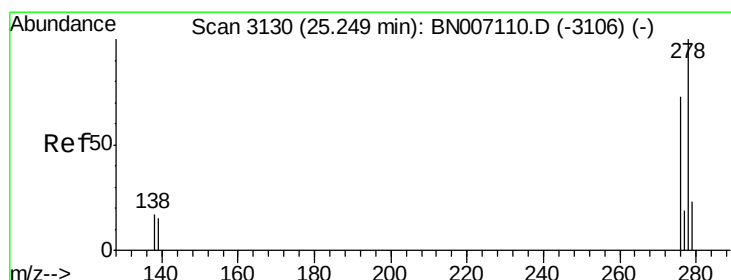
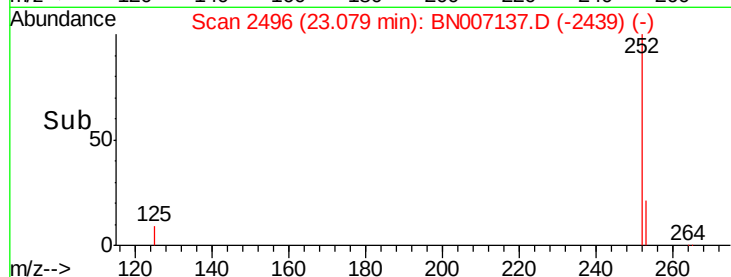
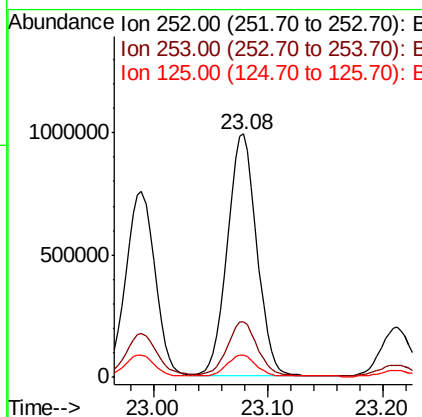
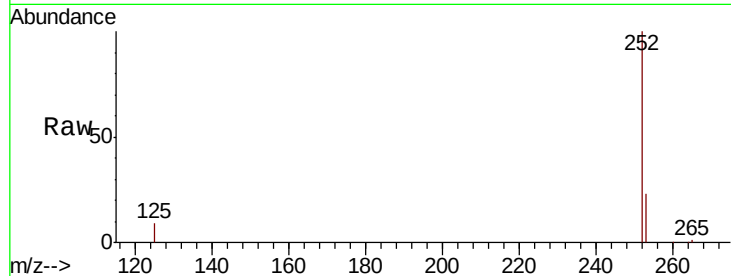




#35
Benzo(a)pyrene
Concen: 8.987 ng
RT: 23.08 min Scan# 2496
Delta R.T. -0.00 min
Lab File: BN007137.D
Acq: 13 Aug 2019 18:19

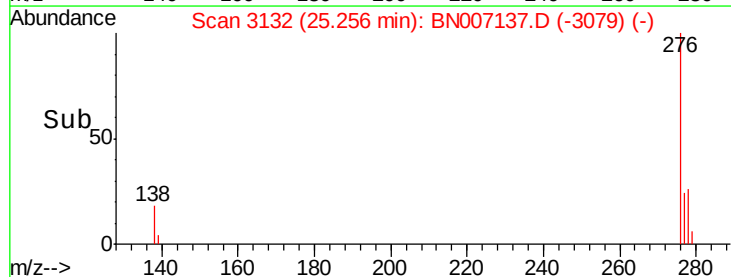
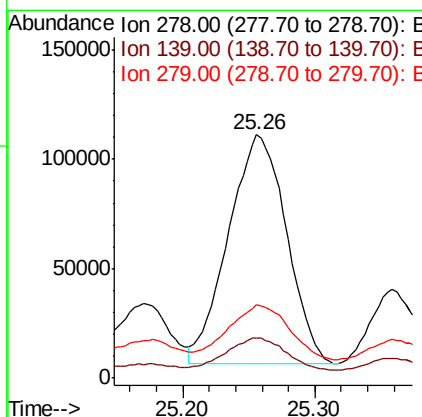
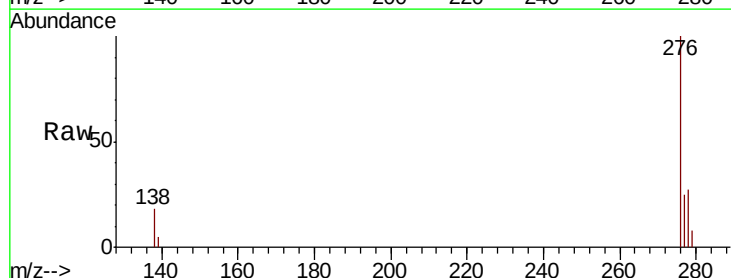
Instrument :
BNA_N
ClientSampleId :

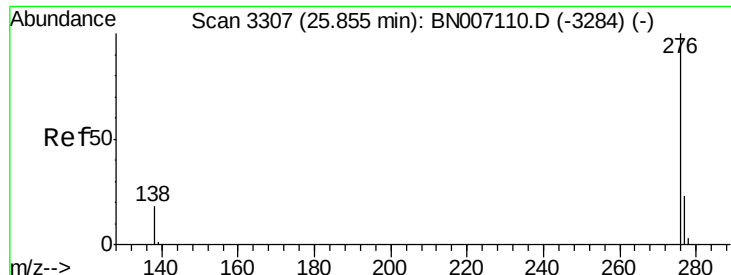
Tot Ion:252 Resp: 1761658
Ion Ratio Lower Upper
252 100
253 22.8 18.5 27.7
125 9.3 8.2 12.4



#36
Dibenzo(a,h)anthracene
Concen: 1.634 ng
RT: 25.26 min Scan# 3132
Delta R.T. -0.02 min
Lab File: BN007137.D
Acq: 13 Aug 2019 18:19

Tgt Ion:278 Resp: 319520
Ion Ratio Lower Upper
278 100
139 16.6 11.3 16.9
279 30.0 19.3 28.9#





#37

Benzo(a,h,i)perylene

Concen: 6.044 ng

RT: 25.88 min Scan# 3314

Delta R.T. -0.00 min

Lab File: BN007137.D

Acq: 13 Aug 2019 18:19

Instrument :

BNA_N

ClientSampleId :

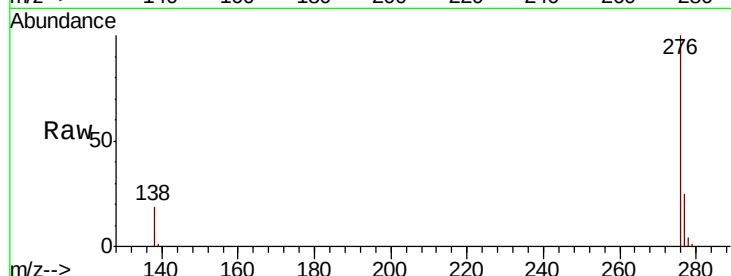
Tot Ion:276 Resp: 1216014

Ion Ratio Lower Upper

276 100

277 24.6 19.8 29.8

138 18.9 14.6 22.0



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

